

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 22:36:03 1994
Message-Id: <MAILQUEUE-101.941104201422.320@vilas.uwex.edu>
From: "Terry O'Laughlin" <OLAUGHLIN@vilas.uwex.edu>
Date: 4 Nov 94 20:14:22 CDT
Subject: 11/4/94 mil equip list

The list is still in its infancy, but here goes.
Additional volunteers are always welcome.

Military Equipment List ----- 11-04-94

The Joint Electronics Type Designation 1
----- 1
e.g. AN/FRR-59A 1
1
AN - indicates "system" 1
/ 1
F - installation 1
R - type of equipment 1
R - purpose 1
- 1
59 - model number 1
A - modification letter 1

installation 1 type of equipment 1
----- 1 ----- 1
A - airborne 1 A - invisible light, heat 1
B - underwater 1 B - radiation 1
C - air transportable 1 C - pigeon 1
D - pilotless carrier 1 D - carrier 1
F - fixed 1 D - radiac 1
G - ground, general 1 E - nupac 1
K - amphibious 1 F - photographic 1
M - ground, mobile 1 G - telegraph or 1
P - pack, portable 1 G - teletypewriter 1
S - water surface craft, ship 1 I - interphone and PA 1
T - ground, transportable 1 J - electromechanical 1
U - general, utility 1 K - telemetering 1
V - ground, vehicular 1 L - countermeasures 1
W - water, surface 1 M - meteorological 1
and underwater 1 N - sound in air 1
1 P - radar 1
----- 1 Q - sonar 1
purpose 1 R - radio 1
----- 1 S - special types 1
A - auxiliary assemblies 1 T - telephone (wire) 1

B	- bombing	1	V	- visual	1
C	- communications	1			1
D	- direction finding	1-----			1
E	- ejection release				1
G	- fire control				1
H	- recording				1
L	- searchlight control				1
M	- maintenance and test assemblies				1
N	- navigation aids				1
P	- reproducing				1
Q	- special or combination of purposes				1
R	- receiving				1
S	- detecting range bearing				1
T	- transmitting				1
W	- control				1
					1
					-----1
thus an AN/FRR-59A is: system, Fixed Radio Receiver, model no. 59					1
		-	-	-	1
					1
This system is common, but not universal					1
					-----1

Designation	Description
AM-6155/GRT-22	Linear power amp, 225-400mHz, 50w (very conservative) 10w in, Eimac X165Z final, extensive metering, can be converted to 116-150mHz, rack mount 7" high, 80 lbs, ITT (model 3212)
AN/FRR-59	Receiver, 2-32mHz, four bands, mechanical digital dial, USB/LSB/ISB/AM/CW, 7&9 pin tubes, triple-conversion: 1625-1725/220/80kHz, 25-1/4h X 22"w X 24"d, 300 lbs, National Radio
CU-1638/GR	Antenna coupler, 6 receiver distribution amp, 2-30mHz, 3 dB gain, 7 dB max noise figure, 50 ohm in & out, "N" connectors, rack mount 3-1/2" high, 15 lbs
CV-116/URR	FSK converter, receive only, 450-510kHz IF, rack mount 8-3/4", 80 lbs
CV-1892/TSC-26	SSB converter, USB/LSB, 455kHz IF, nuvistors, audio, carrier & sub-carrier meters, AFC, rack mount 5-1/4", 29 lbs

ME-165/G Standing Wave Ratio Power Meter, internal 50 ohm/600 watt dummy load, 0-600 watt meter, uses twelve 600 ohm non-inductive resistors, 9.8" h X 10.5" w X 9.8" d, 20 lbs, designed for T-368

R-389 Receiver, 15-1500kHz, 2 ranges, 7 bands, mechanical digital dial, PTO, AM/CW, bandwidths: 0.1/1/2/4/8kHz, (0.1&1 xtal), 7&9 pin tubes, autotune, dual audio chains, squelch, rack mount 10-1/2" high, 90 lbs.

contract	year	manufacturer	quantity
14214-PH-51	1951	Collins Radio	unknown

R-390 Receiver, 0.5-32MHz, thirty-two 1MHz bands, mechanical digital dial, PTO, AM/CW, bandwidths: 0.1/1/2/4/8/16 kHz (0.1&1 xtal, no mech filters), 7&9 pin and 2-6082 tubes(hv reg), dual audio chains, squelch, two RF stages, 125 ohm balanced antenna in w/twinax and unbalanced w/"C" connectors, rack mount 10-1/2" high, 90 lbs, production:

contract	year	manufacturer	quantity
14214-PH-51	1951	Collins Radio	unknown
26579-PH-52	1952	Motorola	unknown

R-390A Receiver, 0.5-32MHz, thirty-two 1MHz bands, mechanical digital dial, PTO, AM/CW, bandwidths: 0.1/1/2/4/8/16 kHz (0.1&1 xtal, others mech), 7&9 pin tubes, dual audio chains, single RF stage, 125 ohm balanced ant in w/twinax or unbalanced w/"C" connector, rack mount 10-1/2" high, 85 lbs, production:

contract	year	manufacturer	quantity
14214-PH-51	1955	Collins Radio	300-400
63-PH-54	1955	Motorola	10,000
375-PH-54	1955	Collins Radio	10,000
08719-PH-55	1956	Collins Radio	10,000
14-PH-56	1956	Motorola	10,000
14385-PH-58	1958	Motorola	10,000
42428-PC-58	1959	Stewart-Warner	10,000
20139-PC-60-A1-51	1960	Stewart-Warner	10,000
23137-PC-60	1960	Electronic Asst. Corp.	10,000
21852-PC-61	1961	Capehart Corp.	10,000
35064-PC-62	1962	Amelco	10,000
37856-PC-63	1963	Teledyne/Imperial	10,000
DA-36-039-SC-81547	1963	Stewart-Warner	10,000

FR-11-022-C-4-26418(E) 1966 Comm. Systems 10,000
 FR-36-039-N-6-00189(E)
 or DAAB05-67-C-0155 1967 Electronic Asst. Corp. 10,000
 (information from ER #24 & #27, Ray NODMS & Wally K50P)

R-391 Receiver, identical to R-390 except w/8 channel autotune mechanical memory (requires external 24VDC 10amp supply), 95 lbs, production:

contract	year	manufacturer	quantity
21852-PH-50-93	1950	Collins	unknown
14214-PH-51	1951	Collins	unknown
11424-PH-51	1951	Collins	unknown

R-392 Receiver, 0.5-32mHz, thirty-two 1mHz bands, mechanical digital dial, PTO, AM/CW, bandwidths: 2/4/8kHz, 7&9 pin & octal tubes including 26A6, 26A7, 26C6 & 26D6, ruggedized vehicular case: 11-1/2" h X 14-1/2" w X 11" d, 58 lbs, 28VDC 5amps, production:

contract	date	manufacturer	quantity
3075-PH-51	1951	Collins Radio	unknown
11653-PH-52	1952	Collins (subcontracts to Stewart-Warner and Stromberg-Carlson)	unknown

R-1051 Receiver, 2-30mHz, direct dial frequency synthesis, 0.5kHz increments, USB/LSB/ISB/AM/FSK, bandwidths: 3.1/6kHz (tied to mode), solid-state except for two rf tubes, 7" h X 17.4" w X 18.9" d, 84 lbs

R-1051B As above except tunes to 0.1kHz increments.

R-1308 Receiver/freq. selective voltmeter, 0.3-800kHz, six bands, analog dial, AM/FM/USB/LSB/CW, bandwidths: 1/2/4/8kHz, 7&9 pin/nuvistor tubes, rack mount 9" h, 25 lbs, Rycom (Railway Communications)

R-1401 Receiver, 1-600kHz, 6 digit electronic counter w/DAFC, AM/CW/USB/LSB/MCW/FSK, bandwidths: 0.15/1/3/6kHz, solid-state w/nixies in counter, ant attn, noise blanker, s-meter, rack mount 3.5" h, 34 lbs, Communications Electronics Inc. (model 357)

R-2174/URR Receiver/freq. selective voltmeter, 0.3-420kHz, six

bands, analog dial, AM/USB/LSB, bandwidths: 0.1/3/10 kHz, 7&9 pin tubes, rack mount 9" high, 25 lbs, Rycom (Railway Communications)

RT-671 Transceiver, 2-11.999mHz, 20/100w PEP, USB, digital /1kHz steps, solid-state except: 5907, 7761, 7905 & PL-177WA final, 7" h X 21-1/4" w X 13-1/2" d, 45 lbs, Collins Radio, 24VDC 20amps or 115VAC 400Hz

T-195/GRC-19 Transmitter, 1.5-20mHz, 80-100w plate mod AM/CW, 4 bands, PTO, autotune, antenna coupler, 4X150D final 2-4X150D mod, 11-1/2h X 22w X 14-1/4d, 135 lbs, 28VDC 42amps, Collins Radio

T-368/URT Transmitter, 1.5-20mHz, 450w CW, 400w plate mod AM, 4 bands, PTO, 4-400 final, 4-125 mod, 41-1/2" h X 32" w X 31" d, 650 lbs, 115VAC single-phase 2200w (AM)

Edited by Terry O'Laughlin, WB9GVB

Additions, corrections and suggestions? Ask for a volunteer submission guide from olaughlin@villas.uwex.edu or landline at (608) 258-1810

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 17:27:48 1994
Date: Fri, 4 Nov 1994 15:36:54 -0500
From: Nick England <nick@cs.unc.edu>
Message-Id: <199411042036.PAA20544@altair.cs.unc.edu>
Subject: 2C for sale - forward

DO NOT REPLY TO ME, REPLY TO THE POSTER !!

=====

rec.radio.swap #16202
>From: cjl@galaxy.nsc.com (Chris Little)
>Subject: Drake 2C for sale
Organization: National Semiconductor, Santa Clara
Distribution: usa
Date: Fri Nov 04 13:44:28 EST 1994
Lines: 9

Since buying a Drake TR7, I don't need the Drake 2C I have, so I would like to get it off of my desk.

Drake 2C receiver in very good condition. Very clean. Missing bottom cover. Works perfect. \$100.00

E-MAIL: cjl@galaxy.nsc.com
KE6FTR

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 14:11:35 1994
Date: 04 Nov 94 12:05:02 EST
From: don merz <71333.144@compuserve.com>
Subject: BC-325
Message-Id: <941104170501_71333.144_DHQ23-4@CompuServe.COM>

Thanks for all your nice notes on the BC-325 adventure. For those who asked, the BC-325 is a 1938-1941 vintage AM/CW transmitter that (theoretically) puts out 400 watts CW and 100 watts AM. It stands about 5'6" tall, 24" wide and 20" deep. It weighs 890 pounds. The finals are 803's. It runs off of 110v 60cps single phase. Mine was made by Federal Telephone and Telegraph under a 1941 contract. It's listed in TM-11-487 (1944) as "no longer procured."

It was designed for division-level HQ use mounted in a truck with separate generator in tow. It is wonderfully unique looking and Baron von Frankenstein's lab had nothing on this thing. I hope to have it on the air in the spring.

If anyone is aware of 1) A manual or copy, I'd dearly love to find one (don't bother suggesting all the usual sources, I've been there), or 2) anyone anywhere with one in operation or even in storage--a museum or anything-- I'd really appreciate that information too. This may be the last one left alive.

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 16:35:49 1994
From: dlkerl@cmack.b11.ingr.com (Dan Kerl)
Message-Id: <199411041927.AA08705@cmack.b11.ingr.com>
Subject: Re: BC-325
Date: Fri, 4 Nov 94 13:27:30 CST

Don wrote..

> Thanks for all your nice notes on the BC-325 adventure. For those who asked,
> the BC-325 is a 1938-1941 vintage AM/CW transmitter that (theoretically)
> puts out 400 watts CW and 100 watts AM. It stands about 5'6" tall, 24" wide
> and 20" deep. It weighs 890 pounds. The finals are 803's. It runs off of 110v
> 60cps single phase. Mine was made by Federal Telephone and Telegraph under
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> lab had nothing on this thing. I hope to have it on the air in the spring.

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> bother suggesting all the usual sources, I've been there), or 2) anyone
> anywhere with one in operation or even in storage--a museum or anything--
> I'd really appreciate that information too. This may be the last one left
> alive.
>

In Huntsville, AL, there's one at Mock Electronics. They want \$800 for it.
It's been there as long as I can remember (mid sixties) I believe it's also
a Federal Telephone unit, and it appears to be in good condition.
"It may be expensive, but it sure is big!"

Dan Kerl
dlkerl@ingr.com

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 08:29:23 1994
Message-Id: <n1428199582.31625@cpqm.saic.com>
Date: 4 Nov 1994 08:19:22 U
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: Book Store Online

I need to find a better filing system.
I seem to remember someone finding a book store that was
accessable over the Internet that was full of technical
books. If anyone remembers, please post it to me. To
keep down the clutter, I will repost it on the list.
Thanks and 73 Bob AC4QO

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 12:15:42 1994
Message-Id: <n1428190224.94762@cpqm.saic.com>
Date: 4 Nov 1994 09:59:08 U
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: Book Store Online

Gary Chatters provided the following which originally came from Laura.
Thanks Gary and Laura.

>From: uunet!creo.bc.ca!lhalliday
Message-Id: <9407127767.AA776731895@mail.creo.bc.ca>
>To: uunet!gnu.ai.mit.edu!Boatanchors
>Subject: Yet another way to burn computer time
Status: R0

A very useful WWW site came to my attention today, and being a
gargantuan technical bookstore who do lots of business in used

books, it may be of interest to other BA folks too.

Powell's Technical Bookstore, Portland, Oregon has to be seen to be believed. You can get to them via WWW on

<http://www.technical.powells.portland.or.us>

..which includes a database of what they have in stock, ordering and contact information, and so on. To whet your appetite, my first snoop through Mosaic turned up a copy of the 4th edition (1952) Radiotron Designer's Handbook...I phoned them and quoted credit card numbers a few picoseconds later.

Usual disclaimer: I have no financial interest in Powell's. Just a customer (and fan) who spends the occasional weekend in Portland for the express purpose of shopping at Powell's.

73 from Burnaby,
laura VE7LDH

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 19:13:02 1994
From: azoth@netcom.com (Az0th)
Message-Id: <199411042054.PAA05385@netcom.netcom.com>
Subject: Drake Filters
Date: Fri, 4 Nov 1994 15:54:47 -0500 (EST)

> You may have already done this, but I'd try Drake's Service Dept at
> (513)746-6990 or Sherwood Engineering at (303)722-2257. They both still
> carry some filters for the older Drakes, although you may not have much of
> a selection.

Oh. Yeah. I knew that... };-]

Well, Bob Sherwood's answering service says he's out of town through the weekend, so I don't know what he might have. I'll try him again next week.

Drake still has the 6kc filter for \$59.95, and I also picked up a couple of crystals for \$15 each (the ones for 160m and 17m; they don't have all the old crystals...) They also had a selector disk for my (just acquired) SPR-4 for \$5, but no manual or LF loopstick. I've got an Interceptor Electronics 3-foot shielded loop for LF/VLF, so the loopstick is a wash, but I could definitely use a manual or copy thereof for the SPR-4, if anybody knows where I might find one.

I remember seeing on the Drake Equipment List that there was an SPR-4A as well. Does anybody know offhand what changed between the SPR-4 and

SPR-4A? (sure, yes, I know it only barely glows in the dark, but a 12lb transistor rig, without batteries, ought to qualify as maybe a rubber dingy-anchor, at least....)

RF Buchanan

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 09:00:50 1994
Message-Id: <n1428196568.12939@cpqm.saic.com>
Date: 4 Nov 1994 09:09:44 U
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: Drake Question

I am coaxing my Drake C-line onto the air. With CW, I have around 125 or so watts output power. With SSB, I am only seeing around 25 or so. Could someone tell me what is the normal output levels for this set of twins?
Thanks. 73 Bob AC4Q0

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 10:01:50 1994
Date: Fri, 4 Nov 94 08:58:14 EST
From: mallick@ausable.crd.ge.com (John Mallick)
Message-Id: <9411041358.AA16477@ausable.crd.Ge.Com>
Subject: Re: Drake Question

The 125 W sounds about right for CW, but 25 on SSB seems a bit low. Maybe your wattmeter is reading average power? Try whistling into the mike and see what you get. The C line 200 W input, so at 50-60% efficiency, you should be seeing about 100-120 W on the peaks.

73, John WA1HNL

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 19:18:30 1994
Date: Fri, 4 Nov 94 16:21:59 CST
From: bill@rosevax.rosemount.com (William Hawkins)
Message-Id: <9411042221.AA08271@texan.rosemount.com>
Subject: Re: Drake Question

>I am coaxing my Drake C-line onto the air.

Maybe you should be ladder-lining it onto the air.

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 03:05:34 1994
Date: Thu, 3 Nov 94 20:46:42 HST
From: jeffrey@math.hawaii.edu (Jeffrey Herman)
Message-Id: <9411040646.AA14833@kahuna.math.hawaii.edu>
Subject: Goodies for sale

More goodies from r.r.swap. // Jeff NH6IL

Article: 16787 of rec.radio.swap

>From: af104@detroit.freenet.org (Jeffrey L. Bauman)

>Subject: Multi Elmac AF-68 For Sale

Multi-Elmac AF68 - 80 - 6 meters, plate modulated 6146. Looks and works fine. Truly "vintage" am / cw gear. \$75 obo.

Call (810) 855-9209 days, or email here.

Thanks,

Jeff WB5KZW (near Detroit)

PS: Also includes Model 1070 AC/DC supply and original manual.

Article: 16793 of rec.radio.swap

>From: dmalinak@class.class.org (Electronic Design Magazine)

>Subject: Drake B-line for sale

For sale: Drake B-line in good condition.

R-4B receiver, T-4XB transmitter, MS-4 speaker, and AC-4 power supply.

All manuals and connecting cables for transceive. No microphone. All in good cosmetic condition. Work well. \$300 or best offer. Prefer to sell as set to buyer for pickup in northern NJ. You pay shipping if out of area.

Reply via e-mail to dmalinak@class.org or at (201) 393-6097.

73 David N2SMH

Article: 16812 of rec.radio.swap

>From: dwebster@netcom.com (Dennis Webster)

>Subject: Sale: Johnson Adventurer & VFO

I have a Johnson Viking Adventurer CW transmitter with the Johnson 122 VFO. (I want to sell as a pair). Asking \$125 + shipping. I have copies of the manuals. Both are in good working order.

Other items for sale are:

Cushcraft R5 antenna..\$125

Vibroplex Key (non-iambic)..\$35

MFJ 948 antenna tuner (like new)..\$75

My email address is dwebster@netcom.com

Dennis Webster WJ6H

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 13:04:03 1994

From: JosephWP@aol.com

Date: Fri, 4 Nov 1994 11:21:15 -0500
Message-Id: <941104111822829539@aol.com>
Subject: Help

Sometime back, I saw a ad for a series of rach mounted shelves on which one could set up to about 40 - 50 lbs of radio. you could put you 75S-3B in a rack with the rack adapter. Just set it on the shelf. They fit right in the standard 19 in rack and had brackets supporting the shelf located inside the cabinet.

Anyone know what I am talking about?

I lost the material on them and now I really need to order a couple of them.

Joseph Pinner +
Lafayette, LA
KC5IJD

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 11:49:05 1994
Message-Id: <n1428189307.49542@cpqm.saic.com>
Date: 4 Nov 1994 10:11:34 U
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: Johnson Adventurer w/VFO

Please query originator. 73 Bob

Newsgroups: rec.radio.swap
Path:
msuinfo!caen!zip.eecs.umich.edu!newsxfer.itd.umich.edu!gatech!
howland.reston.ans.net!ix.netcom.com!netcom.com!dwebster
>From: dwebster@netcom.com (Dennis Webster)
>Subject: Sale: Johnson Adventurer & VFO
Message-ID: <dwebsterCypMz9.M4x@netcom.com>
Organization: NETCOM On-line Communication Services (408 261-4700 guest)
X-Newsreader: TIN [version 1.2 PL1]
Date: Thu, 3 Nov 1994 21:13:57 GMT
Lines: 13

I have a Johnson Viking Adventurer CW transmitter with the Johnson 122 VFO. (I want to sell as a pair). Asking \$125 + shipping. I have copies of the manuals. Both are in good working order.

Other items for sale are:
Cushcraft R5 antenna..\$125
Vibroplex Key (non-iambic)..\$35
MFJ 948 antenna tuner (like new)..\$75

My email address is dwebster@netcom.com

Dennis Webster WJ6H

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 12:04:03 1994
From: rdkeys@csemail (R. D. Keys)
Message-Id: <9411041501.AA101507@csemail.cropsci.ncsu.edu>
Subject: Re: LF/VLF antennas & users
Date: Fri, 4 Nov 94 10:01:18 EST

>
> Probably the easiest and most consistent LF RTTY catch is the NAVTEX trans-
> missions on 518 KHz. The transmissions are in SITOR B mode (this is another
> error correcting mode), and even under poor receiving conditions the copy is
> incredibly clean. I've probably copied transmissions here from 15 or 20
> different countries. The transmissions are mostly marine weather forecasts,
> hazard to navigation notices, and occasional press synopsis.
>
> Good Hunting,
> Mr. T., K9TA
>

What do you use for the SITOR FEC copy? I would like to copy these.
I have found a HAL CRI-200 box that is supposed to work if one has the
right software --- but what software?

Any pointers appreciated.

Bob
NA4G

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 22:59:32 1994
From: mirage!pamars@uhura.neoucom.EDU (P.A.Marshall)
Message-Id: <9411042308.AA07923@mirage>
Subject: Looking for... (continued)
Date: Fri, 4 Nov 94 18:08:12 EST

Thanks to everyone for the many suggestions for providing SW reception
for a blind acquaintance. One suggestion that came up more than once
was a SP-600 JX. Well, Larry has one for sale, and I am really thinking
about giving it a try. But, I could use a little more info. about
this set, and how the crystal channels are actually selected. Just
what are the steps required to select one of the crystal channels?

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org

As nightfall does not come at once, neither does oppression. In both instances, there is a twilight when everything remains seemingly unchanged. And it is in such twilight that we all must be most aware of change in the air--however slight--lest we become unwitting victims of the darkness.

Justice William O. Douglas

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 22:10:42 1994

From: TOM.A.ADAMS@mail.admin.wisc.edu

Subject: Marine Beacon List

Date: Fri, 04 Nov 94 19:46 CST

Message-Id: <EB4J4552.EB4J4603@mail.admin.wisc.edu>

to: boatanchors@gnu.ai.mit.edu

Hello Jeff.

Re. your offer to post the beacon list here: DO IT!!!

I for one could REALLY use that data. Ken Stryker's list of aero beacons is very useful, and he made an attempt to include maritime beacons, but that list definitely falls short.

Ken's list is a loose leaf affair, and it's my intention to print and punch your listing and add it to the binder in my listening post.

Unfortunately, I kinda feel guilty using the efforts of folks like you (free) and Ken Stryker (nominal cost). This kind of data compilation is invaluable to the hobby / sport, and I've never had the time, resources, or inclination to produce such a contribution myself. It's a bit hard at times to continue to take without giving back.

73's,

Tom, K9TA

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 04:03:23 1994

Date: Thu, 3 Nov 94 21:32:23 HST

From: jeffrey@math.hawaii.edu (Jeffrey Herman)

Message-Id: <9411040732.AA14902@kahuna.math.hawaii.edu>

Subject: Maritime Radio Beacons

Gang,

I'm compiling a list of all US maritime navigational radio beacons from the USCG Light Lists to be posted on rec.radio. shortwave.

But there seems to be a bit of VLF/longwave interest here on this group so I'm wondering if you folks would also like to get copies of this list. It will be in 7 parts, corresponding to the 7 volumes of the above USCG pub.

Prior to my 500kc/600M experiences at NMO that you all have read about on here the past year, I worked at the Coast Guard Monterey Group Office (which commanded the Santa Cruz, Monterey, and Morro Bay search and rescue stations, and all the Central California buoys, lighthouses, foghorns, radio facilities), callsign NMC6; I helped to keep the 12th District radio beacons operational so that should explain my interest in these pups.

I'll enclose Part 7 (West Coast) of the series - and if there's no complaints I'll post the others at one part per day. If anyone feels this is out of the BA charter feel free to complain! [The beacon transmitters are all boatanchors themselves!]

By the way, the fellow who signs himself -H needs to get himself a sense of humor to understand my 'Dit War' statement - he must be a real bore on the air...

*****Begin Included File*****
Newsgroup: rec.radio.shortwave
>Subject: Maritime Radio Beacons - Part 6

I'm starting this series with 'Part 6' since the following list of maritime beacons came from Volume 6 of the US Coast Guard Light Lists For Pacific Coast And Pacific Islands. There's a total of seven volumes so expect one part each day.

Maritime beacons transmit a 2.1 KHz bandwidth carrier so set your bandwidth filters accordingly so as to separate closely placed beacons. A2 emission is used: A continuous carrier with the Morse code ID tone modulated on the carrier.

The base of the antenna of a beacon ranges from 10 feet to about 200 feet above sea level; power output is generally no more than 100 Watts, for their designed range is between 10 and 175 NM. Antennas are generally ~50 foot vertical whips, using the ocean as a counterpoise. They're located usually at harbor entrances or atop lighthouses

These lists will contain only continuously operating beacons (as opposed to sequenced beacons).

PART 6: USCG BEACON SYSTEM - PACIFIC COAST AND PACIFIC ISLANDS

Freq (KHz)	Station	ID
207	Egg Island, CAN	UEM
233	Victoria, CAN	YJ
285	Newport Bay, CA	NE
286	Cape Spencer, AK	T
286	Pigeon Point, CA	PI
288	San Luis Obispo, CA	SL
289	Marina Del Rey, CA	MR
290	Point Pinos, CA	P
292	Cape Hinchinbrook, AK	W
292	Trinidad Head, CA	TR
294	Santa Barbara, CA	SB
294	Santa Cruz Harbor, CA	SC
295	Five Fingers, AK	D
296	Long Beach, CA	LB
296	Point Bonita, CA	B
296	Quatsino, CAN	B
298	Moss Landing Harbor, CA	ML
300	Humboldt Bay, CA	H
300	Point Loma, CA	L
304	Cape Blanco, OR	OE
305	Pine Island, CAN	P
307	Avalon, CA	AV
307	Fort Bragg, CA	N
307	Sandheads, CAN	G
308	Channel Island, CA	CI
308	Triple Islands, CAN	O
309	Race Rocks, CAN	J
310	Barbers Point, HI	BP
310	Morro Bay, CA	MB
312	Cape Beale, CAN	CB
314	Farallon Islands, CA	F
314	Langara Point, CAN	H
314	Saint Paul, AK	SPY
314	Ventura Marina, CA	VM
315	Sisters Island, CAN	M
316	Crescent City, CA	C
317	Ediz Hook, WA	K
318	Cape Decision, AK	UT
319	Redondo Beach, CA	RB
320	Point Atkinson, CAN	AE
320	Point Arena, CA	A
322	Point Sur, CA	S

323	Oceanside, CA	OC
324	Guard Islands, AK	J
325	Los Angeles Light, CA	LA
325	Bodega Head, CA	BO
325	Grays Harbor, WA	G
329	Carmanah, CAN	D
353	Cape Scott, CAN	ZES
359	Tofino, CAN	YAZ
373	Estevan Point, CAN	EP
378	Active Pass, CAN	AP
380	McInnes Island, CAN	MS

End of Part 6.

Jeff NH6IL
jeffrey@math.hawaii.edu

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 20:38:03 1994
From: TOM.A.ADAMS@mail.admin.wisc.edu
Subject: NAVTEX Reception
Date: Fri, 04 Nov 94 17:19 CST
Message-Id: <EB4H1824.EB4H1900@mail.admin.wisc.edu>

>to: boatanchors@gnu.ai.mit.edu

Hello Bob.

Re. NAVTEX / SITOR-B demodulation:

I copy the NAVTEX stuff on a Universal Shortwave M-7000 here. I would think any of the digital demod boxes that will copy the one way broadcast version of the T0R modes (SITOR, SPECTOR, and possibly AMTOR; I think W1AW sends, or at least USED to send, bulletins in the AMTOR mode. It may have been replaced by the ASCII transmission) would do the job for NAVTEX.

We're essentially talking a 100 baud synchronous ASCII here, but with the error correcting protocols of the T0R system.

If your demod can copy the automated traffic list broadcasts from A T & T's station W00 (Ocean Gate Radio, New Jersey) on HF, the NAVTEX will copy in the same mode.

BTW, I made an error in the previous message. NAVTEX transmissions in SITOR are NOT, strictly speaking, error corrected. They are, instead, a type of synchronous RTTY (essentially, a radio form of TELEX) transmission. Each character is sent multiple times, and if a bad character comes through a microprocessor

compares the various copies of the character available, and "votes" for the version that appears most often. Since a bad character would have to get blown apart in EXACTLY THE SAME WAY several times in order to get printed, the copy is very clean. True error correcting modes are two way, and have error checking between the transmitting and receiving station. Using this direct comparison, the system usually corrects errors by a brute force method; if the copy does not check, it's repeated until it does.

Good Hunting,

Mr. T.

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 13:57:26 1994
From: rdkeys@csemail (R. D. Keys)
Message-Id: <9411041759.AA102102@csemail.cropsci.ncsu.edu>
Subject: NEED WWII ACTUAL MESSAGE TEXTS
Date: Fri, 4 Nov 94 12:59:09 EST

Boatanchorites:

For an upcoming display at our local museum, I would like to have some examples of actual message texts that were sent in WWII. Does anyone out there in boatanchorland have any hard copy of actual WWII message texts? I would like a clear clean xerox if possible of actual messages, or the printed text of same as may have occurred in books or articles after the fact.

Of particular interest would be the message as sent to the troops from Washington declaring hostilities, starting/ending D-Day, VE-Day, VJ-Day, or the death of President Roosevelt (one of the operators who received this one will be present, and I would like to surprise him with a copy of the text, if it still exists).

Any pointers would be appreciated.

Many Thanks

Bob
NA4G
rdkeys@csemail.cropsci.ncsu.edu

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 21:28:07 1994
From: ab4el@Cybernetics.NET (Stephen Modena)
Message-Id: <9411050138.AA00912@Cybernetics.NET>
Subject: Please excuse any garbage spewed...
Date: Fri, 4 Nov 1994 20:38:19 -0500 (EST)

Well, the truth is: SunSITE is behaving very strangely these last few days. The powers that be don't let on, but it's hard to miss. We definitely have thrown a rod...from whatever the Sparc equivalent to a spun bearing is.

Since I do things for the QRP-L and BOATANCHORS digests on that machine, some of the hot scrapnel may land here. The machine has created its version of a time warp...spewing up emailings from all the way back to September.

73/Steve/AB4EL ab4el@Cybernetics.NET

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 02:37:58 1994
Date: Fri, 4 Nov 94 00:01:54 CST
From: bill@rosevax.rosemount.com (William Hawkins)
Message-Id: <9411040601.AA07947@texan.rosemount.com>
Subject: Re: R-390 dynamotor

The 28 volt idea didn't catch on, even though the Signal Corps required it in the original design. The 28 volt wiring was reused for a mod that brought the center tap of the HV transformer out to the main chassis ground, rather than grounding it on the power supply module. Both my 389 and 390 Collins sets have this mod. They could not run a 'motor if one was available.

Finding a set with a dynamotor should be like finding an old stamp with the airplane printed upside down. That is, pretty useless unless you can find a collector with deep pockets.

Bill Hawkins

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 17:34:37 1994
From: janderson@polycom.com
Date: Fri, 04 Nov 94 12:24:17 PST
Message-Id: <9410047839.AA783980657@ccsmpgw.polycom.com>
Subject: Re: Re: Winding Transformers...

Rhett:

Thanks for the info - I'll check around for some books on the subject - I'm curious about the paper that's used between layers: is it special? And should you goop up each layer with some sort of coil goop?

- Jeff, WA6AHL

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 19:59:22 1994

Date: Fri, 4 Nov 94 17:17:04 EST
From: mallick@ausable.crd.ge.com (John Mallick)
Message-Id: <9411042217.AA11615@ausable.crd.Ge.Com>
Subject: Re: Re: Winding Transformers...

Jeff,

You might want to check some of the older ARRL Handbooks; I think that they have some information about re-winding transformers.

73, John WA1HNL

From owner-boatanchors@gnu.ai.mit.edu Sat Nov 5 00:27:07 1994
Date: Sat, 05 Nov 94 04:42:52 UTC
Message-Id: <12@ki5sl.ampr.org>
From: ki5sl@ki5sl.ampr.org (Rick_Blank)
Subject: Re: Re: Winding Transformers...

In message <199411042204.AA17209@cruz.com> Bill VanAlstyne writes:

> > Does anyone know where to find information on repairing/rewinding
> > burned-out power transformers?
>
> > Thanks,
>
> > - Jeff, WA6AHL
>
> There was an excellent article about doing exactly that in an old QST. I
> rebuilt a TV power transformer this way and turned it into a higher-voltage
> transmitter supply transformer. The voltages came out exactly according to
> calculations, and it looked and worked great, with absolutely no hum or
> vibration.
>
> Unfortunately, I can't remember the month or even the year. It was probably
> somewhere between 1965 and 1978. (I rebuilt the transformer in '78.) If
> there is a searchable QST index on the net somewhere, I'll bet you could
> find it by searching on "transformer". (I'd be interested in knowing if
> there ***is*** a searchable QST index on-line, actually.)
>
> Bill, N6FN
> *****
> * Bill VanAlstyne StarQuest Data Services *
> * bill@cruz.com Aptos, CA *
> *****
>
>
>

OK, guys, I searched thru my copy of "From Beverages to OSCAR" that covers QST magazines from January, 1945 to December, 1990 and I found the following references:

1. ON REWINDING POWER TRANSFORMERS	April, 1984	page 52
2. REWINDING TRANSFORMERS	October, 1980	page 34
3. CLEANING TRANSFORMER LAMINATIONS	July, 1966	page 66
4. HAM USE OF POWER-LINE TRANSFORMERS	November, 1980	page 38 (Pole Pigs)
5. HOW TO WIND YOUR OWN POWER XFMRS	February, 1970	page 38
6. HOMEMADE POWR XFMRS DESIGN	November, 1960	page 30
7. NOTE ON XFMRS WINDING	June, 1961	page 38
8. SAVE BURNED-OUT XFMRS	February, 1962	page 33
9. TRANSFORMER WINDING JUG (JIG?)	August, 1965	page 71
10. TRANSFORMER WINDING NOTES	May, 1965	page 58

There is a total number of 42 references in the index made on the subject of "transformer" as the global search word, I took out what seemed (by just looking at the index, I can not vouch for the information in any of these articles) to be the most applicable to rewinding and building transformers....I hope this helps!

Rick Blank, KI5SL
ki5sl@sat.ampr.org
2223 Blanco Road
San Antonio, Texas 78212
end

From owner-boatanchors@gnu.ai.mit.edu Sat Nov 5 01:26:37 1994
Date: Sat, 05 Nov 94 05:04:14 UTC
Message-Id: <14@ki5sl.ampr.org>
From: ki5sl@ki5sl.ampr.org (Rick_Blank)
Subject: Re: Re: Winding Transformers...

Well, I re-ran the Database and I found:

1. BIAS/FILAMENT VOLT USING TV XFMRS	October, 1978	page 37
2. CHANGING OUTPUT VOLTAGE ON TV XFMRS	August, 1970	page 53
3. COIL/XFMRS WINDING MACHINE	September, 1970	page 53
4. INSULATION FOR HOMEMADE XFMRS	July, 1971	page 47
5. LOWER VOLTAGE TESTING OF HV XFMRS	July, 1985	page 43

I have two references almost the same so I'll post both:
(I think I posted one earlier, but...)

6. SAVE BURNED-OUT XFMRS	February, 1962	page 33
7. SAVE BURNED-OUT XFMRS	January, 1965	page 84

8. TAILOR MAKING POWER XFMRS
9. WINDING LO-PWR XFMRS

February, 1962 page 36
August, 1959 page 26

This listing came from a global search usin XFMRS as the search word and has 64 entries.

Hope this helps!

Rick Blank, KI5SL
ki5sl@sat.ampr.org
2223 Blanco Road
San Antonio, Texas 78212
end

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 20:11:08 1994
From: TOM.A.ADAMS@mail.admin.wisc.edu
Subject: Transformer winding info
Date: Fri, 04 Nov 94 18:05 CST
Message-Id: <EB4I0507.EB4I0517@mail.admin.wisc.edu>

>to: boatanchors@gnu.ai.mit.edu

If you can find it, a good source of transformer winding info is the late 1940's editions of Bill Orr's "Radio Handbook" (Editors and Engineers).

The particular one that comes most readily to mind is the oversized one with the black cover; I believe it's the 1946 or 1948 edition. Look in the section on power supply design.

Mr. T.

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 13:13:55 1994
From: Fire Bottle archive handler <firebotl@theporch.com>
Subject: WARNING: Curmudgeon Alert!!!!
Date: Fri, 4 Nov 1994 6:49:37 -0600 (CST)
Message-Id: <9411040649.aa23929@jackatak.theporch.com>

OK Gang-

It is really nice to have the list back functioning after a week of having our posts stuck in Limbo, but there is a dangerous tendency cropping up:

IF we wish to preserve the wonderful character of this list and reduce the overall NOISE level, we need everyone to please invest a little intellectual effort and *EDIT* your responses!

Far too many (exuberant) responses are complete repeats of the previous one of two messages, properly indented and attributed to be sure, with only a one or two line pithy addition.

I do NOT want to miss the pithy addition, but wading through a rerun of one or more *ENTIRE* messages to get to it certainly diminishes the impact of the comment.

And, there are several people on the List who pay, *by the pound*, for their email, and when their box overflows, the remainder goes in the "bit bucket"... imagine your own frustration at needing a response to a request for help or a part and not being able to read the message because some well-meaning but momentarily inconsiderate person quoted an entire message, only for a "me, too!" at the bottom, and filled your daily pile... After you finished going nuts, you might probably still be angry, and that is NOT a good attitude for folks playing with things that glow in the dark!

So, please take this in the vein it is intended:

I do have a life.

I don't need prunes.

I do archive this list.

Excess quoting annoys not only me, but LOTS of others who are less vocal.

I get enough mail from people asking what can be done to make this plea in the first place.

I get all the noise I need on 75 meters in my mobile!

73,

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657 -- all from the mobile! ;^)

Fire Bottle Server (Boat Anchors Get Out and Keep You Warm!)

firebotl@jackatak.theporch.com

Where Old Radios and Fun ... GO TOGETHER!

+-----human interface: root@jackatak.theporch.com-----+

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 11:19:23 1994

From: "Kasprzyk, Emil" <EFK@eng2.tracor.com>

Subject: Wilcox 99 series xmtrs

Date: Fri, 04 Nov 94 08:42:00 PST

Message-Id: <2EBA716F@MSMGATE.TRACOR.COM>

In the late 1950s and early 1960s, the U. S. Air Force used the Wilcox 99C and 99SSB xmtrs extensively on east coast radar sites in order to talk to aircraft at sea on radar picket duty. I used to have an Air Force technical order for the 99C, so I know that military manuals exist and I don't see why the Air Force did not also use the 99A. There was a large number of these transmitters offered to U. S. Air Force MARS members in Georgia during the 1980s, so this might be a fertile area to look into.

Emil KC5IZ

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 13:53:13 1994
From: janderson@polycom.com
Date: Fri, 04 Nov 94 09:41:49 PST
Message-Id: <9410047839-AA783970909@ccsmtgw.polycom.com>
Subject: Winding Transformers...

Does anyone know where to find information on repairing/rewinding
burned-out power transformers?

Thanks,

- Jeff, WA6AHL

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 17:06:11 1994
Date: Fri, 4 Nov 1994 15:06:57 -0500
From: "Rhett T. George" <rth@ee.duke.edu>
Message-Id: <199411042006.PAA70083@ee.duke.edu>
Subject: Re: Winding Transformers...

- Jeff -

The electrical repair program at most any community technical institute having electrical technology probably has transformer winding information. Best is to measure the gauge and count the turns of each old winding as it is removed. Go back on with new wire to duplicate the original winding.

Rhett - KE4HIH

From owner-boatanchors@gnu.ai.mit.edu Fri Nov 4 21:04:32 1994
Message-Id: <199411042204.AA17209@cruz.com>
Date: Fri, 04 Nov 1994 14:03:34 -0800
From: bill@cruz.com (Bill VanAlstyne)
Subject: Re: Winding Transformers...

>

> Does anyone know where to find information on repairing/rewinding
> burned-out power transformers?
>
> Thanks,
>
> - Jeff, WA6AHL

There was an excellent article about doing exactly that in an old QST. I rebuilt a TV power transformer this way and turned it into a higher-voltage transmitter supply transformer. The voltages came out exactly according to calculations, and it looked and worked great, with absolutely no hum or vibration.

Unfortunately, I can't remember the month or even the year. It was probably somewhere between 1965 and 1978. (I rebuilt the transformer in '78.) If there is a searchable QST index on the net somewhere, I'll bet you could find it by searching on "transformer". (I'd be interested in knowing if there ***is*** a searchable QST index on-line, actually.)

Bill, N6FN

* Bill VanAlstyne StarQuest Data Services *
* bill@cruz.com Aptos, CA *
